

Claims

1. A generating set utilizing falling water flow, comprising: a substantially vertically standing cylindrical frame having an introduction port at its top end for introducing falling water flow and a discharge port at its lower end for discharging the falling water flow so as to pass the falling water flow through the cylindrical frame; a conveyor circulatably provided inside the cylindrical frame in the vertical direction via a rotary shaft in a loop-like tensed state; a plurality of buckets disposed in the longitudinal direction along an outer surface of a circulating portion of the conveyor and fixed thereto at predetermined intervals, into which the falling water flow is introduced and the openings of which face in the direction opposite to the circulating direction of the conveyor; and a generator connected to the rotary shaft which supports the conveyor and rotates with the circulation of the circulating portion of the conveyor, characterized in that the buckets, the openings of which face in the upward direction, lined up on the outer surface of one side of the circulating portion of the conveyor are arranged along a passage through which the falling water flow introduced from the introduction port into the inside of the cylindrical frame passes.

2. A generating set as set forth in claim 1, characterized in that a funnel for introducing the falling

water flow into the inside of the cylindrical frame through the introduction port is provided on the introduction port at the upper end of the cylindrical frame.

3. A generating set as set forth in claim 1 or 2, characterized in that a storage tank for temporarily storing the falling water flow to be introduced into the inside of the cylindrical frame through the introduction port is provided.

4. A generating set as set forth in claim 1, 2 or 3, characterized in that guide plates for introducing the falling water flow into the buckets are provided on outer edges of the openings of the respective buckets lined up on the outer surface of the circulating portion of the conveyor in the longitudinal direction in such a manner that the guide plates stand up diagonally outward opposite to the trunk side of the buckets.

5. A generating set as set forth in claim 1, 2, 3 or 4, characterized in that the conveyor is formed by a combination of a chain and sprockets.